

Reflection and Self-Assessment**Part 1:** Circle the statement that best describes how you completed the practice:

- I answered all questions without using the online solutions. I checked my answers against the key at the back of the practice and was able to determine my mistakes and correct them without referring to the online solutions.
- I answered most questions correctly without using the online solutions. I used the online solutions to help me with some questions and was able, with help from the online solutions, to understand every question and answer them correctly.
- I used the online solutions to help me with most of the questions. I was able, with help from the online solutions, to understand each question and answer them correctly.
- Even using the online solutions, I was not able to fully understand the solution to some problems. The questions I had trouble with were:

- I did not attempt all the questions on the practice.

Part 2: Circle the statement that best describes your confidence in answering questions of this type in the future.

- I am confident I can answer nearly any question of this type correctly without using notes or other assistance.
- I am confident I can answer **MOST** questions of this type correctly without using notes or other assistance.
- I am **NOT** confident I can answer most questions of this type correctly without using notes or other assistance.

Part 3: Circle the statement below that best describes the total amount of time you spent actively working on this practice:

Less than an hour	Between one and two hours	Between two and three hours	Between three and four hours	More than four hours
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4. A load with resistance of 13.2Ω , is connected to a battery with EMF of 12.0 V and internal resistance of 0.963Ω .
- What is the total resistance of the circuit?
 - What is the total current of the circuit?
 - What is the terminal voltage of the battery?
 - How much power does the load draw?
5. A load with resistance of 22.5Ω , is connected to a battery with terminal voltage of 4.5 V and EMF of 4.7 V .
- What is the current of the circuit?
 - What is the internal resistance of the battery?

8. A battery with internal resistance of $0.75\ \Omega$ is connected to a $45\ \Omega$ load and the terminal voltage is $7.5\ \text{V}$. What will the terminal voltage be if it is connected instead to a $15\ \Omega$ load?

Answer Key				
1) 4.4 V	2) 0.35 Ω	3) 8.4 V	4a) 14.2 Ω	4b) 0.849 A
4c) 11.2 V	4d) 9.49 watts	5a) 0.20 A	5b) 1.0 Ω	6) 11 Ω
7) 45 V	8) 7.3 V			